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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,253	09/26/2001	Jeffrey Johnson	42390P12455	3010
8791	7590 06/20/2003			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			EXAMINER	
			NGUYEN, DANNY	
			ART UNIT	PAPER NUMBER
•		2836		
			DATE MAILED: 06/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			I A - I' - I' - I'				
			Application No.	Applicant(s)			
		Office Action Summary	09/965,253	JOHNSON, JEFFREY			
		Onice Action Summary	Examiner	Art Unit			
-		The MAILING DATE fithis communication and	Danny Nguyen	2836			
The MAILING DATE f this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
	1)[Responsive to communication(s) filed on 26 S	eptember 2001 .				
	2a)[s action is non-final.				
	3)[Since this application is in condition for allowa	nce except for formal matters, pre	osecution as to the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
	Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 1. Claims 1, 2, 5-7, 9-12, 15-17, 19-22, 25-27, 29, 30 are rejected under 35 U.S.C. 102(a) as being anticipated by Yue et al. (USPN 6,509,779).

Regarding to claims 1, 10, 11, 20, 21, 30, Yue et al. disclose a method and an apparatus (see figures 3 and 4) comprises an inductor (110) having an impedance connected in series between an output of a high frequency circuit (20) operating at a frequency and an ESD circuit (40) configured to protect the high frequency circuit from an ESD event, the impedance having substantially high value at that frequency and a substantially low value at the ESD event).

Regarding to claims 2, 12, 22, Yue et al. disclose the ESD circuit (40) has first and second terminals, the first terminal being connected to one end on the inductor (110), and the second terminal being connected to ground (shown in fig. 3).

Regarding to claims 5, 6, 15, 16, 25, 26, Yue et al. disclose the inductor is connected between a first bond pad (10) of the output and a second bond pad (10a) of the ESD circuit (40) on a package substrate in a package encapsulating the high frequency circuit (20) and the ESD circuit (40) (see fig. 13).

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Regarding to claims 9, 19, 29, Yue et al. disclose the high frequency higher than 1 gigahertz (col. 4, lines 24-25).

Regarding to claim 7, 17, 27, Yue et al. disclose the high frequency circuit and ESD circuit are on a silicon die mounted on the package substrate (see abstract).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3, 4, 13, 14, 23, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yue et al. in view of Kleveland et al. (USPN 5,969,929). Yue et al. do not disclose the ESD circuit is a gate grounded NMOS and a diode. Kleveland et al. disclose an ESD circuit being a gate grounded NMOS (such as 330 shown in fig. 3B) and an ESD circuit being a diode (116 shown in fig. 1). It would have been obvious to one having skill in the art to modify the ESD circuit of Yue et al. with a GGNMOS and a diode as taught by Kleveland et al. in order to protect ESD event (col. 5, lines 49-53).
- 3. Claims 8, 18, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yue et al. in view of Chiu (USPN 6,414,849). Yue et al. do not disclose the package is flip-chip BGA package. Chiu discloses the package is flip-chip BGA package (col. 5, line 35). It would have been obvious to one having skill in the art to modify the integrated circuit circuit of Yue et al. with a flip-chip BGA package as taught by Chiu in order to reduce stress in the IC circuit (Chiu, col. 5, lines 48-51).

Conclusion

Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to Danny Nguyen whose telephone number is (703)-305-5988. The examiner can normally be reached on Mon to Fri 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (703)-308-3119. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9318 for regular communications and (703)-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

June 16, 2003